

From the INTERNATIONAL SEARCHING AUTHORITY

То	:			PCT			
	see form	PCT/ISA/220		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43 <i>bis</i> .1)			
				Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet)			
	licant's or agent's file form PCT/ISA/2			FOR FURTHER ACTION See paragraph 2 below			
International application No. PCT/US2004/023917			International filing date (c 22.07.2004	Priority date (day/month/year) 13.08.2003			
International Patent Classification (IPC) or both national classification and IPC C07C19/08, C07C19/10, C07C21/18							
Applicant PCBU SERVICES, INC.							
1.	This opinion co	ontains indication	ons relating to the follo	owing items:			
2.	Box No. I Box No. II Box No. III Box No. IV Box No. V Box No. VI Box No. VIII Box No. VIII FURTHER ACTI If a demand for it written opinion of the applicant chell international Bur will not be so con If this opinion is, submit to the IPE	Basis of the opinion Priority Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Lack of unity of invention Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement Certain documents cited Certain defects in the international application Certain observations on the international application Certain observations on the international application ACTION for international preliminary examination is made, this opinion will usually be considered to be a con of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where to chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority occursidered. In is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to be IPEA a written reply together, where appropriate, with amendments, before the expiration of three the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date.					
3.	For further option		T/ISA/220. Form PCT/ISA/220.		-		
Nam	e and mailing addres	ss of the ISA:		Authorized Officer	neines Pataneau		

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2004/023917

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	Во	x No	. I Basis of the opinion				
1.	Wit the	Vith regard to the language, this opinion has been established on the basis of the international application in ne language in which it was filed, unless otherwise indicated under this item.					
		☐ This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).					
2.	Wit	th regard to any nucleotide and/or amino acid sequence disclosed in the international application and cessary to the claimed invention, this opinion has been established on the basis of:					
	a. type of material:						
	[a sequence listing				
	[☐ 1	table(s) related to the sequence listing				
	b. format of material:						
	[□ i	n written format				
	[⊐ i	in computer readable form				
	c. time of filing/furnishing:						
	[–	contained in the international application as filed.				
	(] 1	filed together with the international application in computer readable form.				
	[□ 1	furnished subsequently to this Authority for the purposes of search.				
3.		has cop	ddition, in the case that more than one version or copy of a sequence listing and/or table relating thereto been filed or furnished, the required statements that the information in the subsequent or additional ies is identical to that in the application as filed or does not go beyond the application as filed, as ropriate, were furnished.				
4.	Additional comments:						



International application No. PCT/US2004/023917

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

No: Claims

1-83

Inventive step (IS)

Yes: Claims

No: Claims

No:

1-83

Industrial applicability (IA)

Yes: Claims

Claims

1-83

see separate sheet

2. Citations and explanations

D1: WO 03/029173 A (PCBU SERVICES INC) 10 April 2003 (2003-04-10)

D2: EP-A-0 434 409 (DU PONT) 26 June 1991 (1991-06-26)

D3: EP-A-0 253 410 (AUSIMONT SPA) 20 January 1988 (1988-01-20)

D4: US-B1-6 291 729 (RAO V N MALLIKARJUNA) 18 September 2001 (2001-09-18)

Section V.

- 1). The claims lack novelty as detailed in the search report or are considered to relate to subject-matter which is trivial in view of the novelty destroying embodiments of the prior art.
- 2). Where conditions presently claimed include reaction conditions of the prior art, but the co-formation of particular products, e.g. olefins is not specifically mentioned in the prior art, the burden of proof is considered to lie with the applicant that such products are not also formed in the prior art.
- 3). Reactions presently claimed catalysed by a mixture of Cu and Pd have been performed in the prior art: see the 6th to 8th entries on p.39 of D1 and p.9, lines 31-35 of D2. Claims relating to such reactions are therefore not novel.
- 4). Inter alia run no.1 in column 3 of D4 relates to a presently claimed reaction catalysed by Pd and conducted in a Nickel tube. This is considered novelty destroying for the Pd/Ni catalysed embodiment of present claim 7.
- 5). Present reactions catalysed by a combination of Cu and Pd are suggested by D1 inter alia as detailed above, p.9, lines 31-35 of D2 and claim 1 of D3. Insofar as particular ratios of these elements are to be used as a catalyst, it is not apparent how this is inventive.
- Combinations of Ni and Pd as catalyst in the present type of reactions are suggested by claim 1 of D3. It is not apparent how these are presently inventive.